

Systems

**OS/VS2 MVS
JES3 Release 3
Selectable Unit
System Information**

5752-826



PREFACE

This publication describes JES3 Release 3 (Selectable Unit ID 5752-826). It contains planning information about JES3 Release 3 for JES3 installation managers, system programmers, and IBM service representatives. You should be familiar with the concepts and terminology introduced in the following prerequisite publications: *Introduction to JES3*, GC28-0607, *System Network Architecture General Information*, GA27-3102, and *VTAM Concepts and Planning*, GC27-6998.

This publication contains four major parts:

- "Introduction" describes JES3 new and improved functions supported by this release.
- "Planning Information" contains machine, programming, and storage requirements, restrictions and incompatibilities, initialization modifications, new and changed modules, and new macros.
- "Program Ordering Information"
- "Publications Support" lists the related publications for JES3 Release 3 and how to order them.

Second Edition (June 1978)

This edition applies to JES3 Release 3 (Selectable Unit ID 5752-826) and to all subsequent releases until otherwise indicated in new editions or technical newsletters. Changes are continually made to the information herein; before using this publication in connection with IBM systems, consult the latest *IBM System/370 Bibliography*, GC 20-0001, for the editions that are applicable and current.

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SUMMARY OF AMENDMENTS
for GC23-0024-1
JES3 Release 3

Addition of a New DSP

Support for the DYNAL DSP has been added. The DYNAL DSP processes dynamic allocation requests for single volume, single unit data sets on permanently-resident or reserved real DASD.

Support for the 3036

Support for the 3036 type of console is added. This console is supported as a 3277.

Storage Estimates

A storage estimate work sheet and an example have been added to the "Storage Requirements" section.

INTRODUCTION

Job Entry Subsystem 3 (JES3) is a primary subsystem of OS/VS2 MVS that provides job entry, scheduling, and output capability for all jobs. Subject to individual processor restrictions and I/O capabilities, up to 32 processors can be connected in a JES3 configuration. These processors include:

- 1 global processor
- 1 to 7 local processors (optional)
- 1 to 31 ASP main processors (optional)

JES3 Release 3 provides the following enhancements:

- *Systems Network Architecture Remote Job Processing (SNA RJP)*: SNA RJP uses the SNA logical unit (LUTYPE 1) interface to support the IBM 3770 Data Communication System (attached by synchronous data link control (SDLC) lines) and the IBM 3790 Communication System (attached by SDLC lines or local channel). JES3 Release 3 extends the JES3 RJP capability to communicate with both binary synchronous communication (BSC) and SNA work stations.

SNA RJP provides, through the use of VTAM and NCP, multipoint line capability for attachment of SNA work stations. SNA work stations can be attached on the same communication line with other SNA terminals or work stations. SNA RJP also allows concurrent transmission of data between JES3 and the logical devices (console, readers, and printers) attached to multiple logical unit (MLU) work station.

SNA RJP supports compression to and from work stations which support the compression function. SNA RJP also supports compaction to work stations which support the compaction function. Compression allows removal of repeated characters from a data stream. Compaction allows the representation of frequently-used characters by a 4-bit, rather than an 8-bit, binary code for transmission to SNA work stations. This reduces the number of binary bits transmitted, thus increasing transmission efficiency. Compression and compaction are selected at logon time. Compaction tables are user-defined in the initialization stream and can be selected on the basis of SYSOUT class, data set, or work station.

SNA RJP supports transmission of data to and from work stations in either ASCII code or EBCDIC code. ASCII can be selected at logon time.

Printer setup is supported for all printers; however, for some SNA work stations, setup is provided by the Peripheral Data Information Record (PDIR) function management (FM) header. Form names, train names, and forms control buffer names are transmitted to the work station in PDIR, rather than via JES3 operator messages. This is especially important for work stations which support 'data to spool' for offline printing. PDIR FM headers also allow multiple output copies to be printed by a single transmission to work stations which support it.

SNA RJP also allows output checkpoint levels to be defined on the basis of a data set, a page, or pages depending on the user's error recovery requirements.

- *Suppression of JESMSG File for TSO Users*: This enhancement allows the user to specify, via the JESMSG parameter on the STANDARDS initialization statement, whether messages sent to the JESMSG file for TSO users should be suppressed. Suppressing the messages sent to the JESMSG file for TSO users significantly reduces the number of spool I/O requests needed to support dynamic allocation requests.

- **Improved Console Service Buffer Management:** Console service uses a new internal service called JES3 Common Quick Cell Services to manage buffers.
- **BSC RJP START I/O Modification:** The EXCP macro interface for BSC RJP is replaced by the STARTIO macro interface. This interface provides a JES3 path length reduction.
- **BSC RJP Compression Improvement:** This modification improves the performance of the equal-character compression function for output data streams to BSC RJP MULTILEAVING work stations. This improvement causes a reduction of cycles required by equal-character compression.

The user can select equal-character compression, blank compression, or no compression by using the CS parameter on the RJPTERM initialization statement.

- **Selectable Data Set Integrity Protection for Dynamically-Allocated Data Sets:** The user can specify which data sets on permanently-resident or reserved DASD volumes require data set integrity protection at the time the data sets are dynamically allocated. Such data sets are specified by including DYNALDSN statements in the initialization stream. A new user exit, IATUX32, allows the user to override the DYNALDSN statement for any dynamic allocation.
- **Improved Staging Area Management:** This modification causes user address spaces to be temporarily suspended (via an OS WAIT) if they are attempting subsystem communication while: (1) the address space is over its user-specified staging area usage limit; or (2) the processor is short of staging areas.

The user can specify, via the STXTNT parameter on the MAINPROC initialization statement for MVS processors, the amount of common service area (CSA) to be used for staging areas and the staging area usage limits to prevent individual address spaces from depleting the staging area pool.

- **Console Service Spool I/O FCT:** A new FCT, CONSDM, processes the JESMSG portion of WTO processing and the output spooling of messages destined for inactive RJP consoles. This resident FCT has a priority of 240.
- ***INQUIRY, S,DE=dsn Operator Command:** This command displays all jobs setup for the specified data set and associated volume(s).
- **Dedicated Converter/Interpreter (CI) Support:** The user can specify, via the CICNT parameter on the STANDARDS initialization statement, the number of CI subtasks to be dedicated for TSO logon jobs. The operator can modify the number of CI subtasks by the *MODIFY,X,D=CI command. The *INQUIRY,X,D=CI remains unchanged; however, the output for this command now includes:
 - 1) the maximum number of batch and started task jobs that can use the CI subtask concurrently.
 - 2) the maximum number of TSO logon jobs that can use the CI subtask concurrently
 - 3) number of batch and started task jobs currently using the CI subtask.
 - 4) number of TSO logon jobs currently using the CI subtask.
- **Default Procedure Library (PROCLIB) and CIPARM List for TSO Logons and Started Task Jobs:** The user can specify, via the STCPMID parameter on the STANDARDS initialization statement, the default CIPARM list to be used when interpreting started task jobs. The default PROCLIB for started task jobs can be specified by the STCPROC parameter on the STANDARDS initialization statement.

The user can specify, via the TSOPMID parameter on the STANDARDS initialization statement, the default CIPARM list to be used when interpreting TSO logon jobs. The default PROCLIB for TSO logon jobs can be specified by the TSOPROC parameter on the STANDARDS initialization statement.

- *Default MSGLEVEL Specification:* JES3 no longer forces the job MSGLEVEL and the allocation MSGLEVEL to 1. The user can specify, via the PARM parameter on the CIPARM statement, the desired job and allocation MSGLEVEL.
- *User Fields:* User-reserved fields are added to most control blocks.
- *New Work Station Supported by BSC RJP:* JES3 BSC RJP now provides support for the IBM Office System/6 as a 2770.
- *Dynamic Allocation Fast Path:* A new FCT, DYNAL, processes dynamic allocation requests for single volume, single unit data sets on permanently-resident or reserved real DASD. This FCT uses a new service called parallel processing of asynchronous I/O which allows users to bypass embedded AWAIT macros. This FCT significantly increases throughput for dynamic allocation requests.
- *New Console Support:* JES3 now provides support for the 3036 console as a 3277.

PLANNING INFORMATION

This section describes the machine, programming, and storage requirements; initialization modifications; restrictions and incompatibilities; new and changed modules/macros for JES3 Release 3.

MACHINE REQUIREMENTS

The minimum configuration for JES3 is:

- One System/370 CPU (Model 145 or larger). On the model 145, the Clock Comparator and CPU Timer feature (2001) and the Advanced Control Program support feature (1001) are required
- Real storage of 1 megabyte for JES3 design entry—not a production system
- Real storage of 2 megabytes for a batch production system
- One multiplexer channel
- One selector or block multiplexer channel
- Three 3330/3340 type disk storage devices
- One card reader
- One printer
- One hard-copy console, or one display console with hard-copy log plus an additional console
- One nine-track tape drive for all distributions of program libraries and updates

NOTE: Although a System/370 Model 145 is satisfactory for a local processor, it is recommended that the global processor be at least a Model 155 with real storage of three megabytes.

Additionally, if the SNA RJP function is used, an LUTYPE 1 work station, such as one of the following, is required:

- 3770 Data Communication System (3771 Models 1, 2, and 3; 3773 Models 1, 2, and 3; 3774 Models 1 and 2; 3775 Model 1; 3776 Models 1, 2, 3, and 4; 3777 Models 1 and 3; 3774P/3775P) in SDLC mode attached through a 3704 or 3705.
- 3790 Communication System attached with an SDLC link through a 3704 or 3705.
- 3790 Communication System channel attached.

All equipment and configurations supported by JES3 Release 2 (Selectable Unit ID VS2.03.812) the OS/VS2 MVS JES3 3850 MSS Selectable Unit (Selectable Unit ID VS2.03.818), and the JES3 expansion for use with non-JES3 allocated subsystems, such as the 3838 Vector Processing Subsystem (VPSS) (Selectable Unit ID 5752-829) are also supported by JES3 Release 3. For further information on the JES3 hardware requirements, see *Introduction to JES3*.

PROGRAMMING REQUIREMENTS

- JES3 RELEASE 3 REQUIRES A COLD START.
- JES3 Release 3 must be applied to the current OS/VS2 MVS release.
- The JES3 SNA RJP function requires VTAM Level 2 (Selectable Unit ID VS2.03.801) or ACF/VTAM. If an SDLC device is attached, NCP/VS 5.0 or ACF/NCP/VS is also required.
- The new user exit, IATUX32, must be in the link pack area (LPA). This user exit must exist in every MVS processor in the JES3 configuration.
- If the following SNA RJP modules are reassembled, the VTAM Level 2 or later macro library is required:

IATABNT	IATSNDU
IATSNDA	IATSNDV
IATSNDC	IATSNFI
IATSNDD	IATSNFO
IATSNDE	IATSNL
IATSNDF	IATSNLB
IATSNDG	IATSNLC
IATSNDM	IATSNLD
IATSNDN	IATSNLM
IATSNDO	IATSNLO
IATSNDP	IATSNLS
IATSNDR	IATSNPI
IATSNDS	IATSNPO
IATSNDT	IATSNNG

Prerequisites

Programs that are identified as “prerequisites” must be installed on your system before you attempt to install JES3 Release 3. Those programs are:

- Dumping Improvements – Selectable Unit ID 5752-833.
- Scheduler/IOS Support – Selectable Unit ID 5752-816
- The list of prerequisite PTFs, if any, that is included in the Program Directory for the release.

Users who have previously not installed any release of JES3 must perform the system generation process for JES3 Release 3.

Corequisites

Programs that are identified as “corequisites” must be installed only if you want to run the associated device under the control of JES3. Those programs are:

- In order to run the 3800 under the control of JES3, users must install the IBM 3800 Printing Subsystem (Selectable Unit ID VS2.03.810) or IBM 3800 Printing Subsystem 12 lines per inch (Selectable Unit ID VS2.03.848).

- In order to run the 3850 under the control of JES3, users must install either MSS Release 2 (independent release) or MSS Release 3 (Selectable Unit ID 5752-824).
- In order to run the 3838 in the JES3 environment, users must install the OS/VS2 MVS 3838 Vector Processing Subsystem Support (Selectable Unit ID 5752-829).

INITIALIZATION MODIFICATIONS

Four new initialization statements have been added for JES3 Release 3. They are: **COMMDEFN**, **DYNALDSN**, **RJPWS**, and **COMPACT**. The **COMMDEFN**, **RJPWS**, and **COMPACT** statements support SNA RJP; the **DYNALDSN** statement is provided for data set integrity protection.

The following initialization and job control statements have been modified for this release:

- **CONSOLE**
- **CONSTD**
- **CIPARM**
- **DEVICE**
- **MAINPROC** for MVS Processors
- **RJPTerm**
- **SETPARAM**
- **STANDARDS**
- **SYSOUT**
- **//*FORMAT**

STORAGE REQUIREMENTS

The following table (Figure 1) describes the DASD space necessary to contain the JES3 system.

DDNAME	Data Set Name	Cylinders on a 3330	Directory Blocks	Usage/Contents
STEPLIB ²	SYS1.JES3LIB	10	75	Contains the JES3 load modules
spool1 ²	SYS1.JESPACE	100 (minimum)	N/A	JES3 spool data set. This value is determined by the size of the configuration.
CHKPNT ²	SYS1.JES3CKPT	1	N/A	Used for JES3 checkpoint/restart
JES3JCT ²	SYS1.JES3JCT	20	N/A	Job control table entries
IATRILB ¹	SYS1.JES3RI	2	10	Contains MVT SVS reader/interpreter modules
¹ This library is required only if an ASP main processor is in the JES3 configuration ² Required				

Figure 1. JES3 DASD Requirements

Following is a table (Figure 2) identifying JES3 Common Service Area (CSA) usage. CSA subpools 231 and 241 are used and both are pageable.

All of the tables/control blocks are located on the global and local processors except for the SETUNITS table and IOSB/SRB. The global processor has a SETUNITS table for every processor in the configuration. Each local processor has its own SETUNITS table. The IOSB/SRB is on the global processor only.

JES3 COMMON SERVICE AREA USAGE					
DSECT/CSECT/Acronym	Size Per Entry/Unit	Module Issuing the IATXBGM, GETMAIN, or AGETMAIN Macro	Subpool Number	Initialization Specification	Formula
Staging Area (SA) Mapped by IATYSTA	380 bytes per SA	IATINM3	241	V1—MAINPROC statement, STXTNT parameter, primext subparameter V2—MAINPROC statement, STXTNT parameter, secdeft subparameter V3—MAINPROC statement, STXTNT parameter, noext subparameter DEFAULT: V1=50, V2=10, V3=10	V1+V2+V3
Protected Buffers	Individual buffer size determined by BUFSIZE parameter on BUFFER statement.	IATINM3	231	V4—MAINPROC statement, PRTPAGE parameter DEFAULT: 16*4K*no. of spool extents	V4*4K
Main Processor Control (MPC) Table Mapped by IATYMP	2048 bytes per MAINPROC statement	IATINM2	241	V5— no. of MAINPROC statements	V5+2048
MEMDATA Mapped by IATYMEM	MEMDATA Header—652 MEMDATA Entry: Job — 260 Init — 260 TOTAL 1172	IATINM3	241	Each MEMDATA represents an active memory Example: One entry per ASID causes the storage to be calculated as 1172* the no. of ASIDs.	1172 per entry
Message Routing Table Mapped by IATYMGR (By MCS Route Code)	72 bytes	IATINC2	231	MSGROUTE statement	72
Message Routing Table Mapped by IATYCNR (By Console ID)	8 bytes per entry	IATINC2	231	V6— no. of CONSOLE statements	8*(V6+1)
SYSUNITS (Mapped by IATYSYS)	40 bytes per entry	IATINGN	241	V7— no. of DEVICE statements	40+V7
SETUNITS (Mapped by IATYSET)	40 bytes per entry	IATINMD	241	V8— no. of DEVICE statements with the XUNIT parameter specified	40+(V8+ additional for each processor specified)

Figure 2. JES3 Common Service Area Usage (1 of 2)

JES3 COMMON SERVICE AREA USAGE					
DSECT/CSECT/Acronym	Size Per Entry/Unit	Module Issuing the IATXBGGM, GETMAIN, or AGETMAIN Macro	Subpool Number	Initialization Specification	Formula
SETNAMES Mapped by IATYNAM	14 bytes per entry	IATINMD	241	V9—no. of SETNAME statements V10—no. of pools specified in the POOLNAMS parameter on the SETNAME statements V11—no. of names specified in the NAMES parameter on the SETNAME statements	14* (V9+V10+V11)
Trace Table and Routine (IATXTRC Macro)		IATINSV	231		40,460 bytes
SSVT Mapped by IATYSVT	888 bytes	IATINSV	241		888 bytes
Destination Queue Mapped by IATYDSQ	512 bytes	IATINSV	241		512 bytes
Storage Management Routine (Module IATGRSQ)	4096 bytes	IATINSV	231		4096 bytes
DSB Mapped by IATYDSB	208 bytes	IATSIDM	241		One DCB allocated for each SYSIN and SYSOUT data set still in the system.
DDR Mapped by IATYDDR	264 bytes	IATSIDR	241		One DDR allocated for each SWAP operator command and when there is a permanent I/O error on a volume.
IOSB/SRB	152 bytes per active RJP line	IATRJM1	241		152* no. of active RJP lines
Dynamic Allocation Data Set Name Table Mapped by IATYDYD	9 + length of dsname to be bypassed or protected.	IATINMD	241	V12—no. of DYNALDSN statements	V12* (9 + length of each data set name which is to be bypassed or protected)

Figure 2. JES3 Common Service Usage (2 of 2)

Following is a sample work sheet (Figure 3) for determining CSA requirements.

CSA REQUIREMENTS EXAMPLE		
Initialization Specification	Formula	Estimate
V1—MAINPROC statement, STXTNT parameter, primext subparameter V2—MAINPROC statement, STXTNT parameter, secdext subparameter V3—MAINPROC statement, STXTNT parameter, noext subparameter <i>EXAMPLE: MAINPROC . . . , STXTNT=(100,10,10,90)</i>	$V1+V2+V3$ $100K+10K+10K$	 200K
PRTPAGE parameter on MAINPROC statement not specified. However, there are 5 spool extents defined. <i>DEFAULT: 16*4K*no. of spool extents</i>	$16*4K*5$	320K
V5—no. of MAINPROC statements <i>EXAMPLE: MAINPROC, NAME=SY1, . . . MAINPROC, NAME=SY2, . . . MAINPROC, NAME=SY3, . . . MAINPROC, NAME=SY4, . . .</i>	$V5*2048$ $4*2048$	 8K
MEMDATA Requirement <i>EXAMPLE: Number of ASIDs is three.</i> MSGROUTE Statement	$1172*3$ 72	 4K 72 bytes
V6—no. of CONSOLE statements <i>EXAMPLE: Initialization stream contains 40 CONSOLE statements</i>	$8*(V6+1)$ $8*(40+1)$	 328 bytes
V7—no. of DEVICE statements <i>EXAMPLE: Initialization stream contains 200 DEVICE statements</i>	$40*V7$ $40*200$	 8K
V8—no. of DEVICE statements <i>EXAMPLE: 100 XUNITS (including all processors)</i>	$40*(V8 + \text{additional for all processors})$ $12 \text{ bytes header} + 40*100$	 4K
V9—no. of SETNAME statements V10—no. of pools specified in the POOLNAMS parameter on the SETNAME statement V11—no. of names specified in the NAMES parameter on the SETNAME statement <i>EXAMPLE: V9=70 V10=0 V11=150</i>	$14*(V9+V10+V11)$ $4 \text{ byte header} + 14(70+0+150)$	 3K

Figure 3. Sample CSA Work Sheet (1 of 2)

CSA REQUIREMENTS EXAMPLE		
Trace Table and Routine	40,960 bytes	40K
SSVT	888 bytes	888 bytes
Destination Queue	512 bytes	512 bytes
Storage Management Routine	4,096 bytes	4K
DSB <i>EXAMPLE: 100 SYSIN/SYSOUT data sets</i>	208*(no. of SYSIN/SYSOUT data sets) 208*100	21K
DDR <i>EXAMPLE: 0</i>	264*0	0
IOSB/SRB <i>EXAMPLE: 50 active RJP lines</i>	152*(no. of active RJP lines) 152*50	8K
V12—no. of DYNALDSN statements <i>EXAMPLE: 50 DYNALDSN statements</i> Average size of dsname is 15 characters.	50*(9 + 15)	1K
TOTAL		623K

Figure 3. Sample CSA Work Sheet (2 of 2)

JES3 MODULE STORAGE ESTIMATE

CSA Requirement	3.5K
PLPA (excluding IATUX26 and IATUX32)	62K

RESTRICTIONS AND INCOMPATIBILITIES

- The /*SIGNON and /*SIGNOFF cards for BSC RJP are replaced by the LOGON and LOGOFF commands for SNA RJP.
- SNA RJP does not support the JESEXCP interface nor the utilities or user-written DSPs that use it. Those utilities include:
 - Card-to-Card (CC)
 - Card-to-Printer (CP)
 - Card-to-Tape (CT)
 - Tape-to-Card (TC)
 - Tape-to-Printer (TP)
- The JES3 BSC RJP debugging aids and error recovery procedures are not applicable to SNA RJP since line control is handled by VTAM and NCP.

NEW AND CHANGED MODULES

Following is a table of all JES3 Release 3 modules.

Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
⁺ IATABMN	JES3	N	If failsoft, FAILDSP, *DUMP, or *RETURN processing is requested
⁺ IATABNA	JES3	N	If JES3 abends, or if *X,DC,OPTION=RJP is entered
⁺ IATABNB	JES3	N	If JES3 abends, or if *X,DC,OPTION=RJP is entered
IATABNC	JES3	N	For table formatting and printing of SUPUNITS in JES3 dumps
IATABND	JES3	N	For formatting of SYSUNIT into JES3 dumps
⁺ IATABNE	JES3	N	If JES3 abends
IATABNF	JES3	N	
IATABNG	JES3	N	
IATABNH	JES3	N	
IATABNI	JES3	N	
IATABNJ	JES3	N	
IATABNK	JES3	N	
IATABNL	JES3	N	
IATABNM	JES3	N	
IATABNN	JES3	N	
<p>Loc — Refers to the storage location of the module. This field can be JES3,PLPA,CSA, or a user address space.</p> <p>Fix — Indicates whether the module is page-fixed or not</p> <p>¹ Indicates that this module has been completely resequenced</p> <p>* New Module for this release</p> <p>⁺ Indicates a change in the logic of the module</p>			

Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
⁺ IATABNO	JES3	N	If *X,JESAID is entered

Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
⁺ IATCN77	JES3	N	If 3277 is defined
⁺ IATCN84	JES3	N	If 3284, 3286, or 3288 is defined
⁺ IATCN95	JES3	N	If 2256, 3060 is defined
IATDCDT	JES3	N	
IATDCNC	JES3	N	
IATDCND	JES3	N	
IATDCNO	JES3	N	If DJ is called in DJC mode
IATDCPC	JES3	N	
IATDCUP	JES3	N	
IATDJDT	JES3	N	If *X,DJ is entered
IATDJIN	JES3	N	If *X,DJ,IN= is entered
IATDJOB	JES3	N	If *X,DJ is entered
IATDJOT	JES3	N	If *X,DJ,OUT= is entered
IATDLIN	JES3	N	While initializing deadline queue
IATDLND	JES3	N	If deadline scheduling is in use
IATDLTM	JES3	N	If deadline job status changes
IATDLWK	JES3	N	If deadline scheduling is in use
IATDMDK	PLPA	N	
IATDMDM	PLPA	N	
IATDMDS	PLPA	Y	
IATDMDT	JES3	N	
IATDMEB	PLPA	N	
IATDMER	JES3	N	If spool I/O error has occurred
IATDMFR	PLPA	N	
IATDMGB	JES3	N	
⁺ IATDMJA	JES3	N	
⁺ IATDMNC	JES3	N	
⁺ IATDMTK	JES3	N	
IATDSI1	JES3	N	If *X,DSI is entered
*IATDYDR	JES3	N	
*IATDYSB	JES3	N	
IATFSLG	JES3	N	If a JES3 function abends
IATFSRC	JES3	N	If a JES3 function abends
IATGRAN	JES3	N	If JESNEWS is requested
IATGRCD	JES3	N	If *X,dspname is entered
IATGRCP	JES3	N	In IATNUC
⁺ IATGRCT	JES3	N	In IATNUC
IATGRED	JES3	N	If *F,E,DUMP= is entered
IATGRGM	JES3	N	In IATNUC
IATGRGS	JES3	N	In IATNUC
IATGRGU	JES3	N	In IATNUC

Loc — Refers to the storage location of the module. This field can be JES3,PLPA,CSA, or a user address space.

Fix — Indicates whether the module is page-fixed or not

¹ Indicates that this module has been completely resequenced

* New Module for this release

⁺ Indicates a change in the logic of the module

Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
IATGRG1	JES3	N	In IATNUC
IATGRHI	JES3	N	In IATNUC
⁺ IATGRJA	JES3	N	In IATNUC
IATGRJN	JES3	N	In IATNUC
IATGRJR	JES3	N	In IATNUC
⁺ IATGRJS	JES3	N	In IATNUC
IATGRJX	JES3	N	In IATNUC
IATGRLD	JES3	N	In IATNUC
IATGRLG	JES3	N	In IATNUC
IATGROP	JES3	N	In IATNUC
IATGRPR	JES3	N	If IATXPRT (CI,CBPRNT) is issued
⁺ IATGRPT	JES3	N	In IATNUC
[*] IATGRQC	JES3	N	In IATNUC
IATGRRQ	JES3	N	In IATNUC
IATGRSQ	JES3	N	In IATNUC
IATGRSV	JES3	N	In IATNUC
IATGRTX	CSA	N	
⁺ IATGRVT	JES3	Y	In IATNUC
IATGRWD	JES3	N	In IATNUC
IATGRWJ	JES3	N	Inquiry/Modify
IATGRWP	JES3	N	If MVS-TSO output or external writer is requested
IATGRWQ	JES3	N	If MVS-TSO STATUS CANCEL-VALIDATE request
IATGSC1	JES3	N	
IATIIAM	JES3	N	
IATIICA	JES3	N	
IATIICC	JES3	N	
IATIICM	JES3	N	
IATICT	JES3	N	One per CI RI subtask
IATICX	JES3	N	One per CI RI subtask
⁺ IATIIDR	JES3	N	
IATIIDT	JES3	N	
IATIIDY	JES3	N	
IATIIEN	JES3	N	
IATIIFD	JES3	N	
IATIIII	PLPA	N	
IATIIPR	JES3	N	
IATIIP0	JES3	N	
IATIIP1	JES3	N	
IATIIP2	JES3	N	
IATIIP3	JES3	N	

Loc — Refers to the storage location of the module. This field can be JES3,PLPA,CSA, or a user address space.
 Fix — Indicates whether the module is page-fixed or not
¹ Indicates that this module has been completely resequenced
^{*} New Module for this release
⁺ Indicates a change in the logic of the module

Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
IATIIRC	JES3	N	
IATIIRM	JES3	N	
IATIIRX	JES3	N	One per RI subtask
IATIISB	JES3	N	One for RI, one for CI
IATIISV	JES3	N	
IATIJDA	JES3	N	If *X IJP is entered
IATIJDR	JES3	N	If *X IJP is entered
IATIJEN	JES3	N	If *X IJP is entered
IATIJIN	JES3	N	If *X IJP is entered
IATIJUST	JES3	N	If *X IJP is entered
IATIMDL	JES3	N	JES3 initialization
IATINAL	JES3	N	JES3 initialization
+IATINAT	JES3	N	JES3 initialization
+IATINCD	JES3	N	JES3 initialization
IATINCK	JES3	N	JES3 initialization
*IATINCT	JES3	N	JES3 initialization
IATINCW	JES3	N	JES3 initialization
IATINC1	JES3	N	JES3 initialization
+IATINC2	JES3	N	JES3 initialization
IATINDT	JES3	N	JES3 initialization
*IATINDY	JES3	N	JES3 initialization
IATINGL	JES3	N	JES3 initialization
+IATINGN	JES3	N	JES3 initialization
+IATINIC	JES3	N	JES3 initialization
+IATINII	JES3	N	JES3 initialization
IATINIO	JES3	N	JES3 initialization
IATINIT	JES3	N	JES3 initialization
IATINJB	JES3	N	JES3 initialization
IATINJC	JES3	N	JES3 initialization
+IATINMD	JES3	N	JES3 initialization
+IATINM1	JES3	N	JES3 initialization
+IATINM2	JES3	N	JES3 initialization
+IATINM3	JES3	N	JES3 initialization
+IATINM4	JES3	N	JES3 initialization
+IATINPK	JES3	N	JES3 initialization
IATINRN	JES3	N	JES3 initialization
+IATINRT	JES3	N	JES3 initialization
+IATINR1	JES3	N	JES3 initialization
+IATINR2	JES3	N	JES3 initialization
IATINSV	JES3	N	JES3 initialization
<p>Loc — Refers to the storage location of the module. This field can be JES3,PLPA,CSA, or a user address space.</p> <p>Fix — Indicates whether the module is page-fixed or not</p> <p>¹ Indicates that this module has been completely resequenced</p> <p>* New Module for this release</p> <p>+ Indicates a change in the logic of the module</p>			

Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
IATINTK	JES3	N	JES3 initialization
*IATINWS	JES3	N	JES3 initialization
+IATIOAC	JES3	N	If *I,A or *I,C or *I,Q or *I,R is entered
IATIOBK	JES3	N	If *I,B is entered
IATIOCN	JES3	N	If *I,O is entered
IATIODC	JES3	N	If *I,N is entered
IATIODL	JES3	N	If *I,L is entered
+IATIOQS	JES3	N	*I,D,D= is entered
IATIODV	JES3	N	
+IATIODX	JES3	N	Loaded when *INQUIRY is processed
IATIOGM	JES3	N	If *I,G is entered
IATIOQR	JES3	N	
IATIOQS	JES3	N	
IATIOQU	JES3	N	If *I,Q is entered
+IATIORJ	JES3	N	
IATISCR	JES3	N	If *X,CR is entered
IATISDL	JES3	N	If //*MAIN DEADLINE= is encountered
IATISDR	JES3	N	If *X,DR is entered
IATISDS	JES3	N	If //*DATASET is encountered
IATISDT	JES3	N	
IATISDV	JES3	N	
IATISEN	JES3	N	
+IATISFR	JES3	N	If //*FORMAT is encountered
IATISIR	JES3	N	If internal reader is active
+IATISJB	JES3	N	
IATISJL	JES3	N	
IATISLG	JES3	N	
IATISMN	JES3	N	If //*MAIN is encountered
IATISNT	JES3	N	If //*NET is encountered
IATISPR	JES3	N	If //*PROCESS is encountered
IATISRD	JES3	Y	If *X,CR, TR, or DR is entered
+IATISRI	JES3	N	If *X,CR, TR, or DR is entered
+IATISRL	JES3	N	If *X,CR, TR, or DR is entered
IATISRP	JES3	N	If *X,CR, TR or DR is entered
*IATISSR	JES3	N	If *X,CR is entered for a reader attached to a SNA work station
IATISTR	JES3	N	If *X,TR is entered
IATLVIN	JES3	N	
IATLVLC	JES3	N	
IATLVVR	JES3	N	If setup is used

Loc — Refers to the storage location of the module. This field can be JES3,PLPA,CSA, or a user address space.

Fix — Indicates whether the module is page-fixed or not

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Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
+IATMDAL	JES3	N	
+IATMDBK	JES3	N	
IATMDDA	JES3	N	If setup is used
+IATMDDR	JES3	N	If setup is used
IATMDFE	JES3	N	If setup is used
+IATMDIQ	JES3	N	If *I,S is entered
+IATMDMO	JES3	N	If *F,S is entered
IATMDMS	JES3	N	
+IATMDRS	JES3	N	If setup is used
+IATMDSB	JES3	N	If setup is used
+IATMDSL	JES3	N	If setup is used
IATMDVE	JES3	N	
IATMOCN	JES3	N	If *F,O is entered
IATMOCP	JES3	N	If *F,J=...,C or *F,J=...,P=... is entered
IATMODC	JES3	N	If *F,N is entered
IATMODL	JES3	N	If *F,L is entered
+IATMODV	JES3	N	
+IATMODX	JES3	N	Loaded when *MODIFY command processed
IATMOGM	JES3	N	If *F,G is entered
IATMOHR	JES3	N	If *F,Q, H or *F,Q,R is entered
IATMOMR	JES3	N	If *F,M is entered
IATMOOS	JES3	N	
+IATMORJ	JES3	N	
IATMOTR	JES3	N	If *F,E is entered
+IATMOVR	JES3	N	Loaded for *F,V and *V commands
IATMSCD	JES3	N	JES3 initialization
IATMSCK	JES3	N	If *F,G,...,CHK is entered
+IATMSGC	JES3	N	
IATMSIN	JES3	N	
IATMSIO	JES3	N	
IATMSIP	JES3	N	
IATSMC	JES3	N	
+IATMSMI	JES3	N	
IATMSMN	JES3	N	
+IATMSMS	JES3	N	
IATMSMV	JES3	N	
IATMSO1	JES3	N	
IATMSPS	JES3	N	
IATMSR1	JES3	N	Processor connect

Loc — Refers to the storage location of the module. This field can be JES3,PLPA,CSA, or a user address space.

Fix — Indicates whether the module is page-fixed or not

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Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
⁺ IATMSR2	JES3	N	Processor connect
IATMSR3	JES3	N	Processor connect
IATMSTM	JES3	N	
IATMSVQ	JES3	N	
IATMSVU	JES3	N	
IATNJCM	JES3	N	If *X,NJP is entered
IATNJDJ	JES3	N	If *X,NJP is entered
IATNJDV	JES3	N	If *X,NJP is entered
IATNJIO	JES3	N	If *X,NJP is entered
IATNJIQ	JES3	N	If *X,NJP is entered
IATNJOD	JES3	N	If *X,NJP is entered
IATNJOP	JES3	N	If *X,NJP is entered
IATNJPD	JES3	N	If *X,NJP is entered
IATODMN	JES3	N	If MVT-TSO output is required
IATODPN	JES3	N	One per active punch writer
IATODPR	JES3	N	One per active print writer
IATODSI	JES3	N	One per active writer
*IATODSN	JES3	N	
IATODWD	JES3	N	
IATOSDI	JES3	N	
⁺ IATOSDR ¹	JES3	N	In IATNUC
IATOSMN	JES3	N	If MVT-TSO output is required
IATOSMP	JES3	N	If processing the WRITER command
IATOSPN	JES3	N	
IATOSPR	JES3	N	If print writer is active
IATOSPS	JES3	N	If print/punch device setup changes
IATOSSI	JES3	N	
*IATOSSN	JES3	N	
⁺ IATOSWD	JES3	N	If writer is active
⁺ IATOSWS	JES3	N	In IATNUC
IATPURG	JES3	N	If purging a job from system
IATRJDV	JES3	N	If *X,RJP is entered
⁺ IATRJM1	JES3	N	If *X,RJP is entered
⁺ IATRJM2	JES3	N	If *X,RJP is entered
⁺ IATRJM3	JES3	N	If *X,RJP is entered
⁺ IATRJM4	JES3	N	If *X,RJP is entered
⁺ IATRJM5	JES3	N	If *X,RJP is entered
IATRJSN	JES3	N	If *X,RJPSNPS is entered
IATSATB0	user	N	

Loc — Refers to the storage location of the module. This field can be JES3,PLPA,CSA, or a user address space.

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Module	Loc	Fix	Condition(s) Under Which the Module is Loaded	
IATSATB1	user	N	If MVS-TSO CANCEL command is encountered	
IATSATB2	user	N		
IATSATB3	user	N		
IATSATB4	user	N		
IATSIBS	PLPA	N		
⁺ IATSICA	PLPA	N		
IATSICF	PLPA	N		
IATSICN	PLPA	N		
IATSIDM	PLPA	N		
IATSIDO	PLPA	N		
IATSIDR	PLPA	N	If MVS-TSO OUTPUT If MVS-TSO STATUS If MVS-TSO LOGON	
⁺ IATSIJS	PLPA	N		
IATSIMS	PLPA	N		
IATSIOP	PLPA	N		
IATSIST	PLPA	N		
IATSIVL	PLPA	N		
IATSIWO	PLPA	N		
IATSI34	PLPA	N		
*IATSNDA	JES3	N		If *X,SNARJP is entered
*IATSNDC	JES3	N		If *X,SNARJP is entered
*IATSNDD	JES3	N	If *X,SNARJP is entered	
*IATSNDE	JES3	N	If *X,SNARJP is entered	
*IATSNDF	JES3	N	If *X,SNARJP is entered	
*IATSNDG	JES3	N	If *X,SNARJP is entered	
*IATSNDM	JES3	N	If *X,SNARJP is entered	
*IATSNDN	JES3	N	If *X,SNARJP is entered	
*IATSNDO	JES3	N	If *X,SNARJP is entered	
*IATSNDP	JES3	N	If *X,SNARJP is entered	
*IATSNDR	JES3	N	If *X,SNARJP is entered	
*IATSNDS	JES3	N	If *X,SNARJP is entered	
*IATSNDT	JES3	N	If *X,SNARJP is entered	
*IATSNDU	JES3	N	If *X,SNARJP is entered	
*IATSNDV	JES3	N	If *X,SNARJP is entered	
*IATSNFI	JES3	N	If *X,SNARJP is entered	
*IATSNFO	JES3	N	If *X,SNARJP is entered	
*IATSNL	JES3	N	If *X,SNARJP is entered	
*IATSNLB	JES3	N	If *X,SNARJP is entered	
*IATSNLC	JES3	N	If *X,SNARJP is entered	
*IATSNLD	JES3	N	If *X,SNARJP is entered	

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Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
*IATSNLM	JES3	N	If *X,SNARJP is entered
*IATSNLO	JES3	N	If *X,SNARJP is entered
*IATSNLS	JES3	N	If *X,SNARJP is entered
*IATSNPI	JES3	N	If *X,SNARJP is entered
*IATSNPO	JES3	N	If *X,SNARJP is entered
*IATSNSG	JES3	N	If *X,SNARJP is entered
+IATSSCM	PLPA	N	
+IATSSDI	PLPA	Y	
IATSSDQ	CSA	N	
IATSSJS	JES3	N	
IATSSVT	CSA	N	
IATUTCB	JES3	N	If CBPRINT utility is called
IATUTCC	JES3	N	If *X,CC is entered
IATUTCN	JES3	N	If *X,CNT is entered
IATUTCP	JES3	N	If *X,CP is entered
IATUTCT	JES3	N	If *X,CT is entered
IATUTC1	JES3	N	
IATUTC2	JES3	N	
+IATUTDC	JES3	N	If *X,DC is entered
IATUTDD	JES3	N	Loaded when DSP called
IATUTDS	JES3	N	
IATUTIC	JES3	N	
IATUTPD	JES3	N	Loaded when DSP called
IATUTPE	JES3	N	Loaded when DSP called
IATUTPI	JES3	N	Loaded when DSP called
IATUTPO	JES3	N	Loaded when DSP called
IATUTPR	JES3	N	Loaded when DSP called
IATUTTC	JES3	N	Loaded when DSP called
IATUTTD	JES3	N	Loaded when DSP called
IATUTTL	JES3	N	Loaded when DSP called
IATUTTT	JES3	N	Loaded when DSP called
IATUX01	JES3	N	One per CI subtask
IATUX02	JES3	N	
IATUX03	JES3	N	
IATUX04	JES3	N	
IATUX05	JES3	N	
IATUX06	JES3	N	
IATUX07	JES3	N	
IATUX08	JES3	N	
<p>Loc — Refers to the storage location of the module. This field can be JES3,PLPA,CSA, or a user address space.</p> <p>Fix — Indicates whether the module is page-fixed or not</p> <p>¹ Indicates that this module has been completely resequenced</p> <p>* New Module for this release</p> <p>+ Indicates a change in the logic of the module</p>			

Module	Loc	Fix	Condition(s) Under Which the Module is Loaded
IATUX09	JES3	N	
IATUX10	JES3	N	
IATUX11	JES3	N	
IATUX15	JES3	N	
IATUX16	JES3	N	
IATUX17	JES3	N	
+IATUX18	JES3	N	
IATUX19	JES3	N	Loaded at initialization
IATUX20	JES3	N	Loaded at initialization
IATUX21	JES3	N	Loaded at initialization
IATUX22	JES3	N	Loaded at initialization
IATUX23	JES3	N	Loaded at initialization
IATUX24	JES3	N	
IATUX25	JES3	N	If verify of NSL tape required
IATUX26	PLPA	N	
IATUX27	JES3	N	If *X,dsp is entered
IATUX28	JES3	N	
+IATUX29	JES3	N	
IATUX30	JES3	N	If MVS TSO command
IATUX31	JES3	N	
*IATUX32	PLPA	N	
IATWAN	JES3	N	If AN print image translate is required
IATWGN	JES3	N	If GN print image translate is required
IATWHN	JES3	N	If HN print image translate is required
IATWPCAN	JES3	N	
IATWPCHN	JES3	N	
IATWPN	JES3	N	If PN print image translate is required
IATWQN	JES3	N	If QN print image translate is required
IATWQNC	JES3	N	If QNC print image translate is required
IATWRN	JES3	N	If RN print image translate is required
IATWSN	JES3	N	If SN print image translate is required
IATWTN	JES3	N	If TN print image translate is required
IATWXN	JES3	N	If XN print image translate is required
IATWYN	JES3	N	If YN print image translate is required
<p>Loc — Refers to the storage location of the module. This field can be JES3,PLPA,CSA, or a user address space.</p> <p>Fix — Indicates whether the module is page-fixed or not</p> <p>+ Indicates that this module has been completely resequenced</p> <p>* New Module for this release</p> <p>+ Indicates a change in the logic of the module</p>			

NEW MACROS

Following is a list of new executable and mapping macros for JES3 Release 3.

IATXADD	IATXIOX	IATYCPP
IATXBPL	IATXLOC	IATYCTB
IATXCDVE	IATXLRGT	IATYCTE
IATXCNT	IATXLRPT	IATYDJS
IATXCRPL	IATXMBFE	IATYDVE
IATXDEL	IATXNGRS	IATYDYD
IATXDEQ	IATXPOST	IATYDYN
IATXDPL	IATXPSCL	IATYDYQ
IATXDYH	IATXRCL	IATYDYR
IAIXDYT	IATXRST	IATYECF
IATXELA	IATXRUGT	IATYELB
IATXELD	IATXRUPT	IATYFMH
IATXELS	IATXSMGR	IATYJMQ
IATXENQ	IATXSNM	IATYLCB
IATXENT	IATXTREG	IATYMFT
IATXERCK	IATXTRMT	IATYPDIR
IATXFLCB	IATXWLST	IATYRAT
IATXFSV	IATXWOPN	IATYRPL
IATXFWSB	IATXWRE	IATYSRD
IATXGCL	IATXWSCL	IATYSRT
IATXGET	IATYBFE	IATYWSB
IATXGSV	IATYCMD	
IATXIOE	IATYCPB	

PROGRAM ORDERING INFORMATION

For information on ordering JES3 Release 3, its prerequisites and corequisites, see your IBM representative.

The list of the microfiche for JES3 Release 3 is included in the Program Directory that accompanies the machine-readable material from the IBM program distribution center for this selectable unit.

PUBLICATIONS SUPPORT

System library documentation provides detailed information about the JES3 Release 3 support summarized in this publication. Each supplement has its own form number and can be ordered individually. There are supplements for each OS/VS2 MVS manual affected by JES3 Release 3. Each supplement contains a cover letter describing the changes to the affected base manual and instructions on inserting and deleting pages. Supplement pages contain the base manual identification, the effective date of the change, and the supplement identification. Be certain to read the cover letter instructions before inserting or deleting any pages.

Following is the complete list of publications that document or support JES3 Release 3. These publications are available at the availability of this selectable unit.

JES3 Publications:

Base Book	Release 3 Information Contained In
<i>Introduction to JES3</i> GC28-0607	Major revision of base
<i>OS/VS2 MVS System Programming Library: JES3</i> GC28-0608	Major revision of base
<i>OS/VS2 Message Library: JES3 Messages</i> GC38-1012	Major revision of base
<i>OS/VS2 MVS System Programming Library: JES3 Debugging Guide</i> GC28-0703	Major revision of base
<i>Operator's Library: OS/VS2 MVS JES3 Commands</i> GC23-0008	Major revision of base
<i>OS/VS2 MVS JES3 Logic</i> SY28-0612	Major revision of base
<i>IBM System/370 Reference Summary JES3 Operator Commands and Dynamic Support Programs</i> GX23-0003	Major revision of base

Other System Library Publications:

Base Book	JES3 Release 3 Information Contained In
<i>IBM 3770 Data Communication System Components</i> GA27-3097	Revision of base
<i>Advanced Function for Communications System Summary</i> GA27-8099	Revision of base

Base Book**Release 3
Information Contained In**

*OS/VS2 System Programming Library: System
Management Facilities (SMF)*

GC28-0706

Supplement GD23-0097

OS/VS2 MVS JCL

GC28-0692

Supplement GD23-0098

OS/VS2 Conversion Notebook

GC28-0689

Revision of base

OS/VS Message Library: VS2 System Messages

GC38-1002

Revision of base

OS/VS Message Library: VS2 System Codes

GC38-1008

Revision of base

OS/VS MVS Debugging Handbook Volume 2

GC28-0709

Revision of base

OS/VS2 System Logic Library (Volume 1)

SY28-0713

Revision of base

OS/VS2 System Logic Library (Volume 3)

SY28-0715

Revision of base

OS/VS2 MVS Data Areas

SYB8-0606 (Microfiche)

SDB3-0100

OS/VS2 MVS Directory

SYB8-0743 (Microfiche)

SDB3-0101

OS/VS2 MVS Data Areas Usage Table

SYB8-0742 (Microfiche)

SDB3-0102

OS/VS2 MVS Symbol Usage Table

SYB8-0744 (Microfiche)

SDB3-0103

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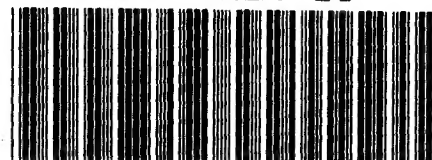
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